

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>66</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0544_01_s_2012_66				
Comment Code					
Inspector Comment					
The LMA has a good working knowledge of flood response. However, LMA has not been involved in flood training for several years.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>71</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0544_01_s_2013_71				
Comment Code					
Inspector Comment					
The LMA has a copy of O&M manual on file in the office.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>72</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0544_01_s_2013_72				
Comment Code					
Inspector Comment					
The LMA maintains an adequate supply of floodfight material.					

No Photos

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	92
LM End	0.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.870285 °	37.870285 °
				-121.329822 °	-121.329822 °
DWR ID	DWR_RD0544_01_f_2014_92				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on landside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_92\_20180906\_00066.jpg



Looking southwest at untrimmed tree on landward slope.

LM Start	0.06	Rating **	U	Issue No.	118
LM End	0.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.869570 °	37.869570 °
				-121.329556 °	-121.329556 °
DWR ID	DWR_RD0544_01_f_2015_118				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Finger erosion noted on landside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_118\_20180906\_00084.jpg



Looking west at landside erosion for shoulder to middle of levee slope.

LM Start	0.26	Rating **	M	Issue No.	101
LM End	0.34	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.867148 °	37.866036 °
				-121.327797 °	-121.327862 °
DWR ID	DWR_RD0544_01_s_2016_101				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	2
LM End	0.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.864958 °	37.864958 °
				-121.327142 °	-121.327142 °
DWR ID	DWR_RD0544_01_s_2012_2				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Large untrimmed tree on landside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_2\_20180906\_00002.jpg



Looking southwest at untrimmed tree on landward slope.

LM Start	0.48	Rating **	U	Issue No.	3
LM End	0.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.864578 °	37.863753 °
				-121.326210 °	-121.322835 °
DWR ID	DWR_RD0544_01_s_2012_3				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on waterside and landside slopes.					

Photo 1 of 2 : FA\_2018\_RD0544\_108\_3\_20180906\_00003.jpg



Looking southeast at the waterside slope.

LM Start	<b>0.48</b>	Rating **	U	Issue No.	<b>3 (cont)</b>
LM End	<b>0.67</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2018\_RD0544\_108\_3\_20180906\_00004.jpg



Looking south at dense veg on waterward slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

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M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.55	Rating **	M	Issue No.	61
LM End	0.63	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.864359 °	37.864011 °
				-121.324939 °	-121.323562 °
DWR ID	DWR_RD0544_01_f_2013_61				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

LM Start	0.64	Rating **	A/W	Issue No.	75
LM End	0.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.863900 °	37.863900 °
				-121.323500 °	-121.323400 °
DWR ID	DWR_RD0544_01_f _ 2017_75				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:571					
Site Designation:LMA-477					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2018\_571\_4478.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.78	Rating **	M	Issue No.	73
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.863016 °	37.863016 °
				-121.321137 °	-121.321137 °
DWR ID	DWR_RD0544_01_f_2013_73				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.81	Rating **	M	Issue No.	93
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.862694°	37.862694°
				-121.320887°	-121.320887°
DWR ID	DWR_RD0544_01_f_2014_93				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_93\_20180906\_00067.jpg



Looking west at untrimmed trees on landward slope and toe fall 2015.

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CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
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**+ Issue Type**

Ma : Maintenance Deficiency  
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.99	Rating **	A/W	Issue No.	77
LM End	1.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.860400 °	37.860200 °
				-121.320300 °	-121.319700 °
DWR ID	DWR_RD0544_01_f_2017_77				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:570					
Site Designation:LMA-476					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2018\_570\_4597.jpg



LM Start	<b>0.99</b>	Rating **	A/W	Issue No.	<b>77 (cont)</b>
LM End	<b>1.02</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_570\_4598.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.99	Rating **	A/W	Issue No.	77 (cont)
LM End	1.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.860400 °	37.860200 °
				-121.320300 °	-121.319700 °
DWR ID	DWR_RD0544_01_f_2017_77				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:570					
Site Designation:LMA-476					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes:					

Photo 3 of 3 : LEVAL\_FA\_2018\_570\_4602.jpg



LM Start	1.12	Rating **	M	Issue No.	39
LM End	1.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.859423 °	37.859423 °
				-121.318328 °	-121.318328 °
DWR ID	DWR_RD0544_01_s_2012_39				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landside slope.					

Photo 1 of 2 : FA\_2018\_RD0544\_108\_39\_20180906\_00031.jpg



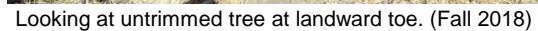
Looking southwest at landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0544 Upper Roberts Island



LM Start	1.44	Rating **	N	Issue No.	14
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.855583 °	37.855583 °
				-121.321177 °	-121.321177 °
DWR ID	DWR_RD0544_01_s_2012_14				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	1.46	Rating **	M	Issue No.	87
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.855416 °	37.855043 °
				-121.321171 °	-121.321122 °
DWR ID	DWR_RD0544_01_s_2015_87				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_87\_20180906\_00062.jpg



Looking west at untrimmed tree at landward toe fall 2015.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable        C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	1.50	Rating **	M	Issue No.	119
LM End	1.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.854844 °	37.854564 °
				-121.321090 °	-121.321031 °
DWR ID	DWR_RD0544_01_f_2015_119				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Damaged levee slope due to fishermen using slope as a ramp.					

LM Start	<b>1.50</b>	Rating **	M	Issue No.	<b>119 (cont)</b>
LM End	<b>1.51</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : FA\_2018\_RD0544\_108\_119\_20180906\_00085.jpg



Looking southeast at damaged waterward slope fall 2015.

Photo 2 of 3 : FA\_2018\_RD0544\_108\_119\_20180906\_00086.jpg



Looking east at damaged waterward slope fall 2015.

LM Start	<b>1.50</b>	Rating **	M	Issue No.	<b>119 (cont)</b>
LM End	<b>1.51</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA\_2018\_RD0544\_108\_119\_20180906\_00087.jpg



Looking southeast at damaged waterward slope fall 2015

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
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**+ Issue Type**

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Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	1.56	Rating **	U	Issue No.	43
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.854068 °	37.853980 °
				-121.321387 °	-121.324213 °
DWR ID	DWR_RD0544_01_s_2012_43				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation waterside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_43\_20180906\_00034.jpg



Looking east at dense veg on waterward slope.

LM Start	1.59	Rating **	M	Issue No.	95
LM End	1.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.854299 °	37.854299 °
				-121.321865 °	-121.321865 °
DWR ID	DWR_RD0544_01_s_2018_95				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on landside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_95\_20180906\_00068.jpg



Looking southwest at untrimmed tree on landward slope.

LM Start	1.63	Rating **	C	Issue No.	79
LM End	1.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.854598 °	37.854598 °
				-121.322320 °	-121.322320 °
DWR ID	DWR_RD0544_01_s_2017_79				
Comment Code					
GA : Garbage					
Inspector Comment					
Remove abandoned stairs to boat dock.					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
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M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
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Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	1.63	Rating **	U	Issue No.	146
LM End	1.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.854643 °	37.854643 °
				-121.322429 °	-121.322429 °
DWR ID	DWR_RD0544_01_f_2017_146				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent hole on landside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_146\_20180906\_00129.jpg



Looking east at the landside slope.

LM Start	1.64	Rating **	M	Issue No.	145
LM End	1.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.854673 °	37.854673 °
				-121.322492 °	-121.322492 °
DWR ID	DWR_RD0544_01_f_2017_145				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_145\_20180906\_00128.jpg



Looking northwest at the landside slope.

LM Start	1.78	Rating **	M	Issue No.	88
LM End	1.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.853770 °	37.853770 °
				-121.324293 °	-121.324293 °
DWR ID	DWR_RD0544_01_s_2015_88				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	1.82	Rating **	U	Issue No.	80
LM End	1.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.853173 °	37.853173 °
				-121.324145 °	-121.324145 °
DWR ID	DWR_RD0544_01_s_2017_80				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair slope damage due to water runoff.					

Photo 1 of 2 : FA\_2018\_RD0544\_108\_80\_20180906\_00057.jpg



Looking west at slope damage due to rain runoff on waterward slope.

LM Start	<b>1.82</b>	Rating **	U	Issue No.	<b>80 (cont)</b>
LM End	<b>1.82</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2018\_RD0544\_108\_80\_20180906\_00058.jpg



Looking south at slope damage due to rain runoff on waterward slope.

LM Start	1.88	Rating **	M	Issue No.	81
LM End	1.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.852327 °	37.852327 °
				-121.323767 °	-121.323767 °
DWR ID	DWR_RD0544_01_f_2017_81				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Active rodents on levee.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	1.89	Rating **	A/W	Issue No.	127
LM End	1.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.852300°	37.852000°
				-121.323700°	-121.323600°
DWR ID	DWR_RD0544_01_f_2017_127				
Comment Code					

Comment Code

Inspector Comment

**Levee Evaluation Comments**

Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No: 569

Site Designation: LMA-475

Repair Type: Erosion

Rating: Area of Concern

Field Date: 8/10/2017

Notes:

LM Start	<b>1.89</b>	Rating **	A/W	Issue No.	<b>127 (cont)</b>
LM End	<b>1.91</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL\_FA\_2018\_569\_4614.jpg



Photo 2 of 3 : LEVAL\_FA\_2018\_569\_4615.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	1.89	Rating **	A/W	Issue No.	127 (cont)
LM End	1.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.852300 °	37.852000 °
				-121.323700 °	-121.323600 °
DWR ID	DWR_RD0544_01_f_2017_127				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:569					
Site Designation:LMA-475					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes:					

Photo 3 of 3 : LEVAL\_FA\_2018\_569\_4616.jpg



LM Start	2.25	Rating **	M	Issue No.	82
LM End	2.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.848302 °	37.848302 °
				-121.324877 °	-121.324877 °
DWR ID	DWR_RD0544_01_s_2017_82				
Comment Code					
EQ : Equipment					
Inspector Comment					
Old irrigation pipe.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_82\_20180906\_00059.jpg



Looking southwest at old irrigation pipe on landward shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0544 Upper Roberts Island

Looking east at erosion under irrigation pipe on landside slope.

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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.26	Rating **	M	Issue No.	98
LM End	2.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.848021°	37.847343°
				-121.324839°	-121.324672°
DWR ID	DWR_RD0544_01_f_2014_98				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Untrimmed trees on landside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_98\_20180906\_00069.jpg



Looking south at untrimmed trees on landward slope.

LM Start	2.27	Rating **	U	Issue No.	44
LM End	2.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.847990 °	37.847990 °
				-121.324897 °	-121.324897 °
DWR ID	DWR_RD0544_01_f_2018_44				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
erosion around irrigation pipe on landward slope.					

Photo 1 of 3 : FA\_2018\_RD0544\_108\_44\_20180919\_00175.jpg

Looking southwest at erosion around irrigation pipe on landward slope.  
(Fall 2018)

LM Start	<b>2.27</b>	Rating **	U	Issue No.	<b>44 (cont)</b>
LM End	<b>2.27</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA\_2018\_RD0544\_108\_44\_20180919\_00174.jpg

Looking northwest at erosion around irrigation pipe on landward slope.  
(Fall 2018)**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.27	Rating **	U	Issue No.	44 (cont)	
LM End	2.27	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.847990 °		37.847990 °
				-121.324897 °		-121.324897 °
DWR ID	DWR_RD0544_01_f_2018_44					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
erosion around irrigation pipe on landward slope.						

Photo 3 of 3 : FA\_2018\_RD0544\_108\_44\_20180919\_00176.jpg



Looking east at erosion around pipe. (Fall 2018)

LM Start	2.27	Rating **	M	Issue No.	8
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.847973 °	37.847105 °
				-121.324820 °	-121.324577 °
DWR ID	DWR_RD0544_01_s_2012_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_8\_20180906\_00013.jpg



Looking southwest at several rodent holes on landward shoulder and slope.

LM Start	2.30	Rating **	A/W	Issue No.	90
LM End	2.30	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.847542 °	37.847542 °
				-121.324732 °	-121.324732 °
DWR ID	DWR_RD0544_01_s_2017_90				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Sinkhole forming in crown.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_90\_20180906\_00064.jpg



Looking at sinkhole on levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.31	Rating **	M	Issue No.	149
LM End	2.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.847327 °	37.847327 °
				-121.324663 °	-121.324663 °
DWR ID	DWR_RD0544_01_f_2017_149				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	2.31	Rating **	A/W	Issue No.	128
LM End	2.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.847300 °	37.846800 °
				-121.324700 °	-121.324400 °
DWR ID	DWR_RD0544_01_f_2017_128				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:568					
Site Designation:LMA-474					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2018\_568\_4540.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.31	Rating **	A/W	Issue No.	128 (cont)
LM End	2.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.847300 °	37.846800 °
				-121.324700 °	-121.324400 °
DWR ID	DWR_RD0544_01_f_2017_128				

Comment Code

Inspector Comment

**Levee Evaluation Comments**

Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No: 568

Site Designation: LMA-474

Repair Type: Erosion

Rating: Area of Concern

Field Date: 8/10/2017

Notes:

LM Start	<b>2.31</b>	Rating **	A/W	Issue No.	<b>128 (cont)</b>
LM End	<b>2.35</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_568\_4545.jpg



Photo 3 of 3 : LEVAL\_FA\_2018\_568\_4547.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0544 Upper Roberts Island

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.33	Rating **	U	Issue No.	46
LM End	2.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.847112 °	37.847112 °
				-121.324555 °	-121.324555 °
DWR ID	DWR_RD0544_01_f_2018_46				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Caving on waterward shoulder.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_46\_20180919\_00177.jpg



Looking east at caving on waterward should and slope. (Fall 2018)

LM Start	2.43	Rating **	U	Issue No.	91
LM End	2.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.845973 °	37.845973 °
				-121.323373 °	-121.323373 °
DWR ID	DWR_RD0544_01_s_2017_91				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope stability with depression in crown due to vehicle traffic.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_91\_20180906\_00065.jpg



Looking south at depression on levee crown and landward slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



## Reclamation District No. 0544 Upper Roberts Island

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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.53	Rating **	A/W	Issue No.	129 (cont)
LM End	2.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.844900 °	37.844500 °
				-121.322300 °	-121.321900 °
DWR ID	DWR_RD0544_01_f _ 2017_129				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:567					
Site Designation:LMA-473					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes: large rodent holes observed on landside slope.					

Photo 3 of 3 : LEVAL\_FA\_2018\_567\_4556.jpg



LM Start	2.53	Rating **	C	Issue No.	15
LM End	2.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.844880 °	37.844880 °
				-121.322212 °	-121.322212 °
DWR ID	DWR_RD0544_01_s_2018_15				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Large finger erosions on landward slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.54	Rating **	C	Issue No.	60
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.844765 °	37.844253 °
				-121.322143 °	-121.321850 °
DWR ID	DWR_RD0544_01_s _ 2012_60				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Finger erosion on landside slope.					

No Photos

LM Start	2.84	Rating **	N	Issue No.	22
LM End	2.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.841075 °	37.841075 °
				-121.320205 °	-121.320205 °
DWR ID	DWR_RD0544_01_s _ 2012_22				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	2.89	Rating **	U	Issue No.	106
LM End	3.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.840952 °	37.837588 °
				-121.319327 °	-121.317540 °
DWR ID	DWR_RD0544_01_s _ 2015_106				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense willows and vegetation on waterside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_106\_20180906\_00073.jpg



Looking southeast at dense willows (veg) on waterward slope and toe fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.95	Rating **	M	Issue No.	107
LM End	2.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.840560 °	37.840467 °
				-121.318463 °	-121.318367 °
DWR ID	DWR_RD0544_01_s_2015_107				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several depressions on landside slope within this reach.					

Photo 1 of 2 : FA\_2018\_RD0544\_108\_107\_20180906\_00074.jpg



Looking south at depression on landward slope.

LM Start	<b>2.95</b>	Rating **	M	Issue No.	<b>107 (cont)</b>
LM End	<b>2.96</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2018\_RD0544\_108\_107\_20180906\_00075.jpg



Looking west at depression on landward shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.95	Rating **	M	Issue No.	5
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.840697 °	37.840697 °
				-121.318252 °	-121.318252 °
DWR ID	RD0544U01RM49.67				
Comment Code					
Inspector Comment					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: Pump has been removed. A larger pocket erosion has been found at the erosion site.					
08/07/2012: The erosion is immediately upstream of a river bend.					
Dense vegetation is visible at the erosion site. [2017 Site ID:RD0544U01RM49.67]					

Photo 1 of 3 : FA\_2018\_RD0544\_108\_5\_20180906\_00010.jpg



Front view of the erosion.

LM Start	<b>2.95</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>2.95</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA\_2018\_RD0544\_108\_5\_20180906\_00011.jpg



Front view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.95	Rating **	M	Issue No.	5 (cont)	
LM End	2.95	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.840697 °		37.840697 °
				-121.318252 °		-121.318252 °
DWR ID	RD0544U01RM49.67					
Comment Code						
Inspector Comment						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: Pump has been removed. A larger pocket erosion has been found at the erosion site.						
08/07/2012: The erosion is immediately upstream of a river bend.						
Dense vegetation is visible at the erosion site. [2017 Site ID:RD0544U01RM49.67]						

Photo 3 of 3 : FA\_2018\_RD0544\_108\_5\_20180906\_00012.jpg



Downstream view of the site.

LM Start	2.95	Rating **	M	Issue No.	47
LM End	3.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.840485 °	37.837225 °
				-121.318390 °	-121.317408 °
DWR ID	DWR_RD0544_01_s_2012_47				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_47\_20180906\_00036.jpg



Looking south at dense veg on landward slope fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0544 Upper Roberts Island

A photograph showing a waterway, possibly a canal or river, with a grassy bank on the right and dense green vegetation on the left. A utility pole is visible in the background.Page 31 of 57

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.21	Rating **	A/W	Issue No.	131 (cont)	
LM End	3.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.836900 °	37.836700 °	
				-121.317300 °	-121.317300 °	
DWR ID	DWR_RD0544_01_f_2017_131					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:566						
Site Designation:LMA-472						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/10/2017						
Notes:						

Photo 2 of 3 : LEVAL\_FA\_2018\_566\_4717.jpg



LM Start	<b>3.21</b>	Rating **	A/W	Issue No.	<b>131 (cont)</b>
LM End	<b>3.22</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2018\_566\_4722.jpg

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.22	Rating **	U	Issue No.	49
LM End	3.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.836763 °	37.829195 °
				-121.317307 °	-121.311918 °
DWR ID	DWR_RD0544_01_s_2012_49				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on waterside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_49\_20180906\_00038.jpg



Looking northeast at dense veg on waterward slope.

LM Start	3.23	Rating **	U	Issue No.	48
LM End	3.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.836615 °	37.836133 °
				-121.317285 °	-121.317153 °
DWR ID	DWR_RD0544_01_s_2012_48				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_48\_20180906\_00037.jpg



Looking south at typical view of dense veg on landward slope.

LM Start	3.48	Rating **	M	Issue No.	56
LM End	3.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.833583 °	37.833583 °
				-121.314968 °	-121.314968 °
DWR ID	DWR_RD0544_01_s_2012_56				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.49	Rating **	A/W	Issue No.	162
LM End	3.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.833475 °	37.833475 °
				-121.314822 °	-121.314822 °
DWR ID	22658				
Comment Code					
Inspector Comment					
FS_ID:24892 DS_ID:22658 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: - pipe on channel bank looks comparatively new.- pump approximately 500 ft. from the levee center on landside in drainage ditch.- a tall concrete standpipe and service pole near the pump. FIELD_STRUCT_DESC: 12-inch steel drainage discharge pipe through the levee, 3 feet below the crown. Pump and concrete standpipe in a drainage ditch on the landside (LS). Air vent on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 7, April 1964, (HLM 3.53)]. FS Date: 10/29/2013					

LM Start	<b>3.49</b>	Rating **	A/W	Issue No.	<b>162 (cont)</b>
LM End	<b>3.49</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_24892\_44853.jpg



WS view: exposed steel pipe on bank of the channel.

Photo 2 of 3 : UCIP\_FA\_2018\_24892\_44852.jpg



WS view: exposed steel pipe and air vent on the pipe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.49	Rating **	A/W	Issue No.	162 (cont)	
LM End	3.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.833475 °		37.833475 °
				-121.314822 °		-121.314822 °
DWR ID	22658					
Comment Code						
Inspector Comment						
FS_ID:24892 DS_ID:22658 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: - pipe on channel bank looks comparatively new.- pump approximately 500 ft. from the levee center on landside in drainage ditch.- a tall concrete standpipe and service pole near the pump. FIELD_STRUCT_DESC: 12-inch steel drainage discharge pipe through the levee, 3 feet below the crown. Pump and concrete standpipe in a drainage ditch on the landside (LS). Air vent on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 7, April 1964, (HLM 3.53)]. FS Date: 10/29/2013						

Photo 3 of 3 : UCIP\_FA\_2018\_24892\_44851.jpg



LS view: service pole, pump, and a concrete standpipe on bank of drainage ditch about 500 ft from the levee.

LM Start	3.49	Rating **	U	Issue No.	51
LM End	4.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.833432 °	37.821853 °
				-121.314792 °	-121.319992 °
DWR ID	DWR_RD0544_01_s_2012_51				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_51\_20180906\_00039.jpg



Looking southeast at the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.65	Rating **	A/W	Issue No.	132
LM End	3.67	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.831800 °	37.831600 °
				-121.312700 °	-121.312600 °
DWR ID	DWR_RD0544_01_f_2017_132				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:565					
Site Designation:LMA-471					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/11/2017					
Notes: dense shrubs on levee slope					

Photo 1 of 3 : LEVAL\_FA\_2018\_565\_4739.jpg



LM Start	<b>3.65</b>	Rating **	A/W	Issue No.	<b>132 (cont)</b>
LM End	<b>3.67</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_565\_4741.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.69	Rating **	A/W	Issue No.	133 (cont)	
LM End	3.73	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.831300 °	37.830700 °	
				-121.312600 °	-121.312300 °	
DWR ID	DWR_RD0544_01_f _ 2017_133					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:564						
Site Designation:LMA-470						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/11/2017						
Notes: big rodent holes on levee slopes						

Photo 2 of 3 : LEVAL\_FA\_2018\_564\_4750.jpg



LM Start	<b>3.69</b>	Rating **	A/W	Issue No.	<b>133 (cont)</b>
LM End	<b>3.73</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2018\_564\_4756.jpg

**\* Location**

LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.76	Rating **	M	Issue No.	109
LM End	3.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.830250 °	37.828013 °
				-121.312323 °	-121.311467 °
DWR ID	DWR_RD0544_01_s_2015_109				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.79	Rating **	A/W	Issue No.	134
LM End	3.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.829800 °	37.829600 °
				-121.312100 °	-121.312100 °
DWR ID	DWR_RD0544_01_f_2017_134				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:563					
Site Designation:LMA-469					
Repair Type: Erosion					
Rating:Serious					
Field Date:8/11/2017					
Notes: site combined with LMA-468;see LMA-468 for details.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

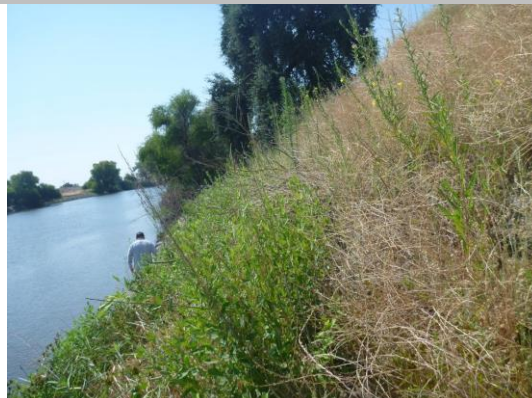
**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.81	Rating **	A/W	Issue No.	135
LM End	3.82	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.829600 °	37.829400 °
				-121.312000 °	-121.312000 °
DWR ID	DWR_RD0544_01_f_2017_135				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:562					
Site Designation:LMA-468					
Repair Type: Erosion					
Rating:Serious					
Field Date:8/11/2017					
Notes: Site combined with LMA-469;					

Photo 1 of 3 : LEVAL\_FA\_2018\_562\_4770.jpg



LM Start	<b>3.81</b>	Rating **	A/W	Issue No.	<b>135 (cont)</b>
LM End	<b>3.82</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_562\_4835.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.81	Rating **	A/W	Issue No.	135 (cont)	
LM End	3.82	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.829600 °	37.829400 °	
				-121.312000 °	-121.312000 °	
DWR ID	DWR_RD0544_01_f_2017_135					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:562						
Site Designation:LMA-468						
Repair Type: Erosion						
Rating:Serious						
Field Date:8/11/2017						
Notes: Site combined with LMA-469;						

Photo 3 of 3 : LEVAL\_FA\_2018\_562\_4836.jpg



LM Start	3.92	Rating **	U	Issue No.	11
LM End	4.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.828078 °	37.826315 °
				-121.311483 °	-121.311024 °
DWR ID	DWR_RD0544_01_s_2012_11				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Large rodent holes on waterside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_11\_20180906\_00017.jpg



Looking at large rodent holes on waterward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.97	Rating **	M	Issue No.	24
LM End	3.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.827360 °	37.827360 °
				-121.311067 °	-121.311067 °
DWR ID	DWR_RD0544_01_s_2015_24				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.25	Rating **	U	Issue No.	120
LM End	4.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.825482 °	37.825229 °
				-121.314298 °	-121.314771 °
DWR ID	DWR_RD0544_01_f_2015_120				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Several untrimmed trees on landside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_120\_20180906\_00088.jpg



Looking southwest at untrimmed trees on landward slope.

LM Start	4.30	Rating **	M	Issue No.	59
LM End	4.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.824943 °	37.824943 °
				-121.315008 °	-121.315008 °
DWR ID	DWR_RD0544_01_s_2012_59				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	4.34	Rating **	C	Issue No.	100
LM End	4.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.824373 °	37.824373 °
				-121.315207 °	-121.315207 °
DWR ID	DWR_RD0544_01_s_2017_100				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree limbs and branches on waterside slope.					

No Photos

LM Start	4.36	Rating **	M	Issue No.	102
LM End	4.42	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.824170 °	37.823494 °
				-121.315223 °	-121.315792 °
DWR ID	DWR_RD0544_01_f_2017_102				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

LM Start	4.41	Rating **	U	Issue No.	117
LM End	4.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.823522 °	37.820557 °
				-121.315735 °	-121.321217 °
DWR ID	DWR_RD0544_01_s_2017_117				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA\_2018\_RD0544\_108\_117\_20180906\_00082.jpg



Looking southwest at the waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0544 Upper Roberts Island

Looking south at dense veg on waterward slope.

A photograph showing a rocky shoreline with dense green vegetation, including tall grasses and shrubs, growing along the edge of a body of water. The sky is clear and blue. The foreground shows some bare, light-colored branches or sticks.Page 44 of 57



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	4.46	Rating **	A/W	Issue No.	136 (cont)
LM End	4.48	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.823200 °	37.823000 °
				-121.316400 °	-121.316800 °
DWR ID	DWR_RD0544_01_f_2017_136				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:561					
Site Designation:LMA-467					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/11/2017					
Notes: site combined with LMA-466 in field; length and coordinates redefined in field.					

Photo 2 of 3 : LEVAL\_FA\_2018\_561\_4866.jpg



LM Start	<b>4.46</b>	Rating **	A/W	Issue No.	<b>136 (cont)</b>
LM End	<b>4.48</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2018\_561\_4867.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	<b>4.48</b>	Rating **	A/W	Issue No.	<b>138</b>
LM End	<b>4.48</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.823000°	37.823000°
				-121.316700°	-121.316800°
DWR ID	DWR_RD0544_01_f_2017_138				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 560 Site Designation: LMA-466 Repair Type: Erosion Rating: Area of Concern Field Date: 8/11/2017 Notes: site combined with LMA-467 in field; see LMA-467 for details.					

No Photos

LM Start	<b>4.48</b>	Rating **	M	Issue No.	<b>103</b>
LM End	<b>4.48</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.823027°	37.823027°
				-121.316737°	-121.316737°
DWR ID	DWR_RD0544_01_f_2014_103				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	4.49	Rating **	U	Issue No.	41
LM End	4.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.822934 °	37.822934 °
				-121.316870 °	-121.316870 °
DWR ID	DWR_RD0544_01_s_2012_41				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.64	Rating **	U	Issue No.	104
LM End	4.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.822033 °	37.821826 °
				-121.319432 °	-121.320071 °
DWR ID	DWR_RD0544_01_f_2014_104				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dense untrimmed trees on landside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_104\_20180906\_00071.jpg



Looking southwest at dense untrimmed trees on landward slope fall 2015.

LM Start	4.69	Rating **	U	Issue No.	105
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.821775 °	37.821775 °
				-121.320203 °	-121.320203 °
DWR ID	DWR_RD0544_01_f_2014_105				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Tree has overgrown onto levee crown.					

Photo 1 of 1 : FA\_2018\_RD0544\_108\_105\_20180906\_00072.jpg



Looking south at overgrown tree on landward shoulder.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	4.69	Rating **	M	Issue No.	111
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821783 °	37.821783 °
				-121.320237 °	-121.320237 °
DWR ID	DWR_RD0544_01_s _ 2015_111				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on landside shoulder.					

No Photos

LM Start	4.71	Rating **	A/W	Issue No.	29
LM End	4.71	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821626 °	37.821626 °
				-121.320471 °	-121.320471 °
DWR ID	DWR_RD0544_01_s _ 2012_29				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
District has employed a rodent control program and grouted holes.					

No Photos

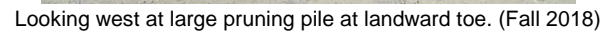
LM Start	4.71	Rating **	M	Issue No.	26
LM End	4.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821592 °	37.821253 °
				-121.320617 °	-121.320927 °
DWR ID	DWR_RD0544_01_s _ 2012_26				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0544 Upper Roberts Island

# Reclamation District No. 0544 Upper Roberts Island





**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	4.97	Rating **	A/W	Issue No.	139 (cont)	
LM End	4.99	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			37.818600 °		37.818400 °
				-121.319200 °		-121.319000 °
DWR ID	DWR_RD0544_01_f_2017_139					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:559						
Site Designation:LMA-465						
Repair Type: Erosion						
Rating:Serious						
Field Date:8/11/2017						
Notes:						

Photo 2 of 3 : LEVAL\_FA\_2018\_559\_4892.jpg



LM Start	<b>4.97</b>	Rating **	A/W	Issue No.	<b>139 (cont)</b>
LM End	<b>4.99</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2018\_559\_4894.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	<b>5.02</b>	Rating **	M	Issue No.	<b>125</b>
LM End	<b>5.02</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.817942°	37.817942°
				-121.319118°	-121.319118°
DWR ID	DWR_RD0544_01_s_2017_125				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>5.07</b>	Rating **	M	Issue No.	<b>32</b>
LM End	<b>5.07</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.817291°	37.817291°
				-121.319399°	-121.319399°
DWR ID	DWR_RD0544_01_f_2017_32				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	5.32	Rating **	A/W	Issue No.	140
LM End	5.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.813900 °	37.813500 °
				-121.319900 °	-121.319400 °
DWR ID	DWR_RD0544_01_f_2017_140				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:558					
Site Designation:LMA-464					
Repair Type: Erosion					
Rating:Serious					
Field Date:8/16/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2018\_558\_4900.jpg



LM Start	<b>5.32</b>	Rating **	A/W	Issue No.	<b>140 (cont)</b>
LM End	<b>5.36</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_558\_4904.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	5.36	Rating **	A/W	Issue No.	141 (cont)	
LM End	5.37	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.813400 °	37.813300 °	
				-121.319300 °	-121.319200 °	
DWR ID	DWR_RD0544_01_f_2017_141					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:557						
Site Designation:LMA-463						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/16/2017						
Notes:						

Photo 2 of 3 : LEVAL\_FA\_2018\_557\_4513.jpg



LM Start	<b>5.36</b>	Rating **	A/W	Issue No.	<b>141 (cont)</b>
LM End	<b>5.37</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2018\_557\_4514.jpg

**\* Location**

LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	5.49	Rating **	U	Issue No.	18
LM End	5.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.812033 °	37.811687 °
				-121.319737 °	-121.320677 °
DWR ID	DWR_RD0544_01_s_2012_18				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry exists on the slope of the levee.					

No Photos

LM Start	5.64	Rating **	N	Issue No.	40
LM End	5.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.811199°	37.811199°
				-121.322176°	-121.322176°
DWR ID	DWR_RD0544_01_s_2012_40				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	5.72	Rating **	C	Issue No.	115
LM End	5.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.811225 °	37.811225 °
				-121.323575 °	-121.323575 °
DWR ID	DWR_RD0544_01_s_2015_115				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landowner excavated hole above pipe.Large hole left on landward shoulder and slope. Call LMA about repair.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	09/13/2018 09/13/2018	Richard Willoughby

LM Start	<b>5.82</b>	Rating **	C	Issue No.	<b>124</b>
LM End	<b>5.82</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.811049°	37.811049°
				-121.325451°	-121.325451°
DWR ID	DWR_RD0544_01_s_2016_124				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0544 Upper Roberts Island

A photograph of a landscape. In the foreground, there is a field of tall, dry, yellowish-brown grass. To the left, a body of water is visible, with some green trees and bushes along its edge. In the background, a white car is parked on a grassy hill. The sky is clear and blue.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable            C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                      A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.21	Rating **	A/W	Issue No.	37 (cont)
LM End	0.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.808300 °	37.808400 °
				-121.332000 °	-121.332200 °
DWR ID	DWR_RD0544_02_f _ 2017_37				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:556					
Site Designation:LMA-462					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/16/2017					
Notes:					

Photo 3 of 3 : LEVAL\_FA\_2018\_556\_4522.jpg



LM Start	0.21	Rating **	U	Issue No.	2
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.808331 °	37.808576 °
				-121.331997 °	-121.332672 °
DWR ID	DWR_RD0544_02_s_2018_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_109\_2\_20180906\_00002.jpg



Looking southeast at dense veg on waterward slope. (Spring 2018)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.44	Rating **	A/W	Issue No.	70
LM End	0.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.810400 °	37.810700 °
				-121.335000 °	-121.335000 °
DWR ID	DWR_RD0544_02_f_2017_70				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:555					
Site Designation:LMA-461					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/16/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2018\_555\_4527.jpg



LM Start	<b>0.44</b>	Rating **	A/W	Issue No.	<b>70 (cont)</b>
LM End	<b>0.46</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_555\_4624.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	<b>0.44</b>	Rating **	A/W	Issue No.	<b>70 (cont)</b>
LM End	<b>0.46</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.810400°	37.810700°
				-121.335000°	-121.335000°
DWR ID	DWR_RD0544_02_f_2017_70				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 555</p> <p>Site Designation: LMA-461</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/16/2017</p> <p>Notes:</p>					

Photo 3 of 3 : LEVAL\_FA\_2018\_555\_4626.jpg



LM Start	<b>0.57</b>	Rating **	A/W	Issue No.	<b>80</b>
LM End	<b>0.58</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.812300°	37.812400°
				-121.335100°	-121.335100°
DWR ID	DWR_RD0544_02_f_2017_80				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 554</p> <p>Site Designation: LMA-460</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/16/2017</p> <p>Notes:</p>					

Photo 1 of 3 : LEVAL\_FA\_2018\_554\_4630.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.57	Rating **	A/W	Issue No.	80 (cont)
LM End	0.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.812300 °	37.812400 °
				-121.335100 °	-121.335100 °
DWR ID	DWR_RD0544_02_f_2017_80				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:554					
Site Designation:LMA-460					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/16/2017					
Notes:					

Photo 2 of 3 : LEVAL\_FA\_2018\_554\_4635.jpg



LM Start	<b>0.57</b>	Rating **	A/W	Issue No.	<b>80 (cont)</b>
LM End	<b>0.58</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2018\_554\_4636.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.64	Rating **	U	Issue No.	27
LM End	0.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.813307°	37.813307°
				-121.335135°	-121.335135°
DWR ID	DWR_RD0544_02_f_2018_27				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 2 : FA\_2018\_RD0544\_109\_27\_20180919\_00125.jpg



Looking southeast at tree limbs on waterward shoulder. (Fall 2018)

LM Start	<b>0.64</b>	Rating **	U	Issue No.	<b>27 (cont)</b>
LM End	<b>0.64</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2018\_RD0544\_109\_27\_20180919\_00126.jpg



Looking east at tree trunk on waterslope slope. (Fall 2018)

LM Start	0.71	Rating **	M	Issue No.	98
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.814267 °	37.814267 °
				-121.334627 °	-121.334627 °
DWR ID	DWR_RD0544_02_f_2017_98				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.72	Rating **	A/W	Issue No.	5
LM End	0.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.814333°	37.814333°
				-121.334592°	-121.334592°
DWR ID	DWR_RD0544_02_s_2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.78	Rating **	U	Issue No.	8
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.815094 °	37.815094 °
				-121.333927 °	-121.333927 °
DWR ID	DWR_RD0544_02_s_2012_8				
Comment Code					
Inspector Comment					
Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.					

LM Start	<b>0.78</b>	Rating **	U	Issue No.	<b>8 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : FA\_2018\_RD0544\_109\_8\_20180906\_00006.jpg



Looking south at depression greater than 6" on waterside shoulder.

Photo 2 of 4 : FA\_2018\_RD0544\_109\_8\_20180906\_00007.jpg



Looking east at caving around siphon on waterside shoulder. (Spring 2012)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	0.78	Rating **	U	Issue No.	8 (cont)	
LM End	0.78	Issue Type +	Ma	Location *	WS	
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude		
				Start		End
Item	Erosion Areas			37.815094 °	37.815094 °	
				-121.333927 °	-121.333927 °	
DWR ID	DWR_RD0544_02_s_2012_8					
Comment Code						
Inspector Comment						
Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.						

LM Start	<b>0.78</b>	Rating **	U	Issue No.	<b>8 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA\_2018\_RD0544\_109\_8\_20180906\_00008.jpg



Looking west at caving around siphon on waterside shoulder. (Spring 2012)

Photo 4 of 4 : FA\_2018\_RD0544\_109\_8\_20180906\_00009.jpg



Looking south at caving around siphon on waterside shoulder. (Spring 2012)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	1.01	Rating **	A/W	Issue No.	82
LM End	1.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.818100 °	37.818200 °
				-121.332800 °	-121.332800 °
DWR ID	DWR_RD0544_02_f_2017_82				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:552					
Site Designation:LMA-458					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/16/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2018\_552\_4810.jpg



LM Start	<b>1.01</b>	Rating **	A/W	Issue No.	<b>82 (cont)</b>
LM End	<b>1.02</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_552\_4811.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	1.01	Rating **	A/W	Issue No.	82 (cont)	
LM End	1.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.818100 °	37.818200 °	
				-121.332800 °	-121.332800 °	
DWR ID	DWR_RD0544_02_f_2017_82					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:552						
Site Designation:LMA-458						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/16/2017						
Notes:						

Photo 3 of 3 : LEVAL\_FA\_2018\_552\_4813.jpg



LM Start	1.29	Rating **	U	Issue No.	101
LM End	1.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820668 °	37.822239 °
				-121.336491 °	-121.340589 °
DWR ID	DWR_RD0544_02_f_2017_101				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_109\_101\_20180906\_00093.jpg



Looking northwest at the waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	1.29	Rating **	U	Issue No.	102
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820668 °	37.822239 °
				-121.336491 °	-121.340589 °
DWR ID	DWR_RD0544_02_f_2017_102				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_109\_102\_20180906\_00094.jpg



Looking northwest at the landside slope.

LM Start	1.34	Rating **	M	Issue No.	56
LM End	1.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821168 °	37.822083 °
				-121.337212 °	-121.338862 °
DWR ID	DWR_RD0544_02_s_2015_56				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.38	Rating **	U	Issue No.	10
LM End	1.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821423 °	37.821423 °
				-121.337878 °	-121.337878 °
DWR ID	DWR_RD0544_02_s_2012_10				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry on landside slope and toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0544 Upper Roberts Island

No Photos

No Photos

Looking southeast at erosion/caving on waterward slope.

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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	1.86	Rating **	U	Issue No.	38 (cont)	
LM End	1.86	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.817983 °	37.817983 °	
				-121.341682 °	-121.341682 °	
DWR ID	DWR_RD0544_02_s_2015_38					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Erosion/Caving on waterside shoulder and slope 18" x 6" x 15'.						

Photo 2 of 2 : FA\_2018\_RD0544\_109\_38\_20180906\_00032.jpg



Looking east at erosion/caving on waterward slope.

LM Start	1.91	Rating **	M	Issue No.	34
LM End	1.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.817658 °	37.817658 °
				-121.342097 °	-121.342097 °
DWR ID	DWR_RD0544_02_f_2018_34				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion cause by foot traffic					

Photo 1 of 2 : FA\_2018\_RD0544\_109\_34\_20180919\_00130.jpg



Looking west at erosion on waterward slope. (Fall 2018)

LM Start	<b>1.91</b>	Rating **	M	Issue No.	<b>34 (cont)</b>
LM End	<b>1.91</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2018\_RD0544\_109\_34\_20180919\_00131.jpg



Looking east at foot erosion on waterward slope. (Fall 2018)

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.02	Rating **	U	Issue No.	58
LM End	2.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.818853 °	37.819493 °
				-121.343473 °	-121.344545 °
DWR ID	DWR_RD0544_02_s_2015_58				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes within reach on landside slope.					

Photo 1 of 1 : FA\_2018\_RD0544\_109\_58\_20180906\_00040.jpg



Looking at typical rodent holes on landward slope.

LM Start	2.07	Rating **	U	Issue No.	13
LM End	2.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819337 °	37.819460 °
				-121.344275 °	-121.344492 °
DWR ID	DWR_RD0544_02_s_2012_13				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	2.12	Rating **	C	Issue No.	59
LM End	2.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.819738 °	37.819738 °
				-121.344922 °	-121.344922 °
DWR ID	DWR_RD0544_02_s_2015_59				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landside shoulder and slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.17	Rating **	A/W	Issue No.	87
LM End	2.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.820300 °	37.820300 °
				-121.345600 °	-121.345700 °
DWR ID	DWR_RD0544_02_f_2017_87				

Comment Code

Inspector Comment

**Levee Evaluation Comments**

Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No: 551

Site Designation: LMA-457

Repair Type: Erosion

Rating: Serious

Field Date: 8/18/2017

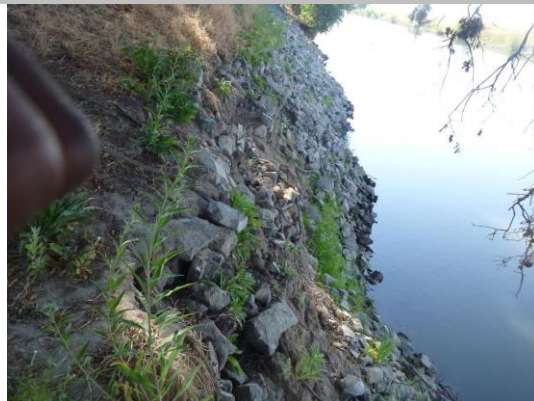
Notes:

LM Start	<b>2.17</b>	Rating **	A/W	Issue No.	<b>87 (cont)</b>
LM End	<b>2.18</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL\_FA\_2018\_551\_4817.jpg



Photo 2 of 3 : LEVAL\_FA\_2018\_551\_4818.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

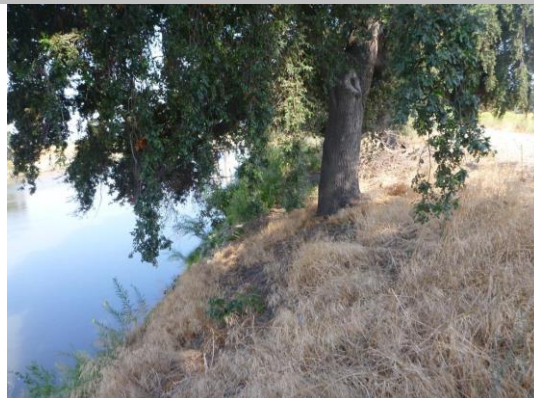
**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	<b>2.17</b>	Rating **	A/W	Issue No.	<b>87 (cont)</b>
LM End	<b>2.18</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.820300°	37.820300°
				-121.345600°	-121.345700°
DWR ID	DWR_RD0544_02_f_2017_87				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 551</p> <p>Site Designation: LMA-457</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 8/18/2017</p> <p>Notes:</p>					

Photo 3 of 3 : LEVAL\_FA\_2018\_551\_4824.jpg



LM Start	<b>2.18</b>	Rating **	A/W	Issue No.	<b>88</b>
LM End	<b>2.19</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.820400°	37.820500°
				-121.345800°	-121.345900°
DWR ID	DWR_RD0544_02_f_2017_88				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 550</p> <p>Site Designation: LMA-456</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/18/2017</p> <p>Notes:</p>					

Photo 1 of 4 : LEVAL\_FA\_2018\_550\_4832.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	<b>2.18</b>	Rating **	A/W	Issue No.	<b>88 (cont)</b>					
LM End	<b>2.19</b>	Issue Type +	Ma	Location *						
Category	Supplemental		GPS Latitude/Longitude							
			Start	End						
Item	2017 Storm Damage		37.820400°	37.820500°						
			-121.345800°	-121.345900°						
DWR ID	DWR_RD0544_02_f_2017_88									
Comment Code										
Inspector Comment										
Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 550 Site Designation: LMA-456 Repair Type: Erosion Rating: Area of Concern Field Date: 8/18/2017 Notes:										

Photo 2 of 4 : LEVAL\_FA\_2018\_550\_4564.jpg



LM Start	<b>2.18</b>	Rating **	A/W	Issue No.	<b>88 (cont)</b>
LM End	<b>2.19</b>	Issue Type +	Ma	Location *	

Photo 3 of 4 : LEVAL\_FA\_2018\_550\_4570.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	<b>2.18</b>	Rating **	A/W	Issue No.	<b>88 (cont)</b>							
LM End	<b>2.19</b>	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		37.820400°	37.820500°								
			-121.345800°	-121.345900°								
DWR ID	DWR_RD0544_02_f_2017_88											
Comment Code												
Inspector Comment												
Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 550 Site Designation: LMA-456 Repair Type: Erosion Rating: Area of Concern Field Date: 8/18/2017 Notes:												

Photo 4 of 4 : LEVAL\_FA\_2018\_550\_4575.jpg



LM Start	<b>2.20</b>	Rating **	C	Issue No.	<b>60</b>							
LM End	<b>2.20</b>	Issue Type +	Ma	Location *	LS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Trim / Thin Trees		37.820655°	37.820655°								
			-121.345982°	-121.345982°								
DWR ID	DWR_RD0544_02_s_2015_60											
Comment Code												
T1 : Trim trees to at least five feet above ground level.												
Inspector Comment												

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	<b>2.21</b>	Rating **	M	Issue No.	<b>32</b>
LM End	<b>2.21</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.820697°	37.820697°
				-121.346050°	-121.346050°
DWR ID	DWR_RD0544_02_s_2012_32				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>2.24</b>	Rating **	M	Issue No.	<b>33</b>
LM End	<b>2.25</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821096°	37.821945°
				-121.346418°	-121.347897°
DWR ID	DWR_RD0544_02_s_2012_33				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>2.28</b>	Rating **	C	Issue No.	<b>61</b>
LM End	<b>2.28</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.821473°	37.821473°
				-121.346860°	-121.346860°
DWR ID	DWR_RD0544_02_s_2015_61				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on landside shoulder. Tree was trimmed but still requires additional trimming.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.31	Rating **	M	Issue No.	11
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.821763 °	37.821763 °
				-121.347275 °	-121.347275 °
DWR ID	RD0544U02RM33.21				
Comment Code					
Inspector Comment					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/20/2013: No significant change observed.					
08/07/2012: The site was first reported in 2012 spring levee inspection report. The data were estimated as the site is underneath a irrigation pump station and inaccessible by boat or land survey. It's possible the pump station played a role in the erosion. [2017 Site ID:RD0544U02RM33.21]					

LM Start	<b>2.31</b>	Rating **	M	Issue No.	<b>11 (cont)</b>
LM End	<b>2.31</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : FA\_2018\_RD0544\_109\_11\_20180906\_00012.jpg



Front view of the erosion site. View is partially blocked by the pump structure and vegetation at the site.

Photo 2 of 3 : FA\_2018\_RD0544\_109\_11\_20180906\_00013.jpg



Front view of the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.32	Rating **	A/W	Issue No.	89 (cont)	
LM End	2.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.821800 °	37.821900 °	
				-121.347500 °	-121.347600 °	
DWR ID	DWR_RD0544_02_f_2017_89					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:549						
Site Designation:LMA-455						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/18/2017						
Notes:						

Photo 2 of 3 : LEVAL\_FA\_2018\_549\_4590.jpg



LM Start	<b>2.32</b>	Rating **	A/W	Issue No.	<b>89 (cont)</b>
LM End	<b>2.33</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2018\_549\_4654.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.41	Rating **	U	Issue No.	73	
LM End	2.59	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.821423 °		37.819153 °
				-121.348849 °		-121.350231 °
DWR ID	DWR_RD0544_02_f_2017_73					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						

Photo 1 of 1 : FA\_2018\_RD0544\_109\_73\_20180906\_00056.jpg



Looking southwest at the landside slope.

LM Start	2.57	Rating **	A/W	Issue No.	75
LM End	2.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.819373 °	37.819373 °
				-121.350077 °	-121.350077 °
DWR ID	DWR_RD0544_02_s_2017_75				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree limbs on waterside slope.					

No Photos

LM Start	2.61	Rating **	U	Issue No.	69
LM End	2.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.818806 °	37.818806 °
				-121.350437 °	-121.350437 °
DWR ID	DWR_RD0544_02_f_2016_69				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion greater than 1' deep and greater than 3' wide. Owner backfilled erosion with rock 3/4 filled. Still need to backfill the remaining erosion.					

Photo 1 of 5 : FA\_2018\_RD0544\_109\_69\_20180906\_00047.jpg



Looking south at erosion on shoulder. (Spring 2018)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.61	Rating **	U	Issue No.	69 (cont)	
LM End	2.61	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.818806 °		37.818806 °
				-121.350437 °		-121.350437 °
DWR ID	DWR_RD0544_02_f __ 2016_69					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion greater than 1' deep and greater than 3' wide. Owner backfilled erosion with rock 3/4 filled. Still need to backfill the remaining erosion.						

LM Start	<b>2.61</b>	Rating **	U	Issue No.	<b>69 (cont)</b>
LM End	<b>2.61</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 5 : FA\_2018\_RD0544\_109\_69\_20180906\_00048.jpg



Looking east at erosion on waterward slope. (Spring 2018)

Photo 3 of 5 : FA\_2018\_RD0544\_109\_69\_20180906\_00049.jpg



Looking south at erosion on waterward shoulder and slope.

LM Start	<b>2.61</b>	Rating **	U	Issue No.	<b>69 (cont)</b>
LM End	<b>2.61</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 5 : FA\_2018\_RD0544\_109\_69\_20180906\_00050.jpg



Looking south at waterward erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.61	Rating **	U	Issue No.	69 (cont)	
LM End	2.61	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.818806 °		37.818806 °
				-121.350437 °		-121.350437 °
DWR ID	DWR_RD0544_02_f _ 2016_69					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion greater than 1' deep and greater than 3' wide. Owner backfilled erosion with rock 3/4 filled. Still need to backfill the remaining erosion.						

Photo 5 of 5 : FA\_2018\_RD0544\_109\_69\_20180906\_00051.jpg



Looking north at erosion on waterward shoulder and slope.

LM Start	2.67	Rating **	M	Issue No.	76
LM End	2.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.818112 °	37.818112 °
				-121.351108 °	-121.351108 °
DWR ID	DWR_RD0544_02_s_2017_76				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.68	Rating **	M	Issue No.	7
LM End	2.70	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.817905 °	37.817905 °
				-121.351102 °	-121.351102 °
DWR ID	RD0544U02RM32.91				
Comment Code					
Inspector Comment					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
10/11/2013: No significant change observed.					
08/07/2012: Series of pocket erosion were discovered at the levee toe during the boat survey. The area is covered with vegetation and riprap, but the rip rap has been washed away. [2017 Site ID:RD0544U02RM32.91]					

LM Start	<b>2.68</b>	Rating **	M	Issue No.	<b>7 (cont)</b>
LM End	<b>2.70</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA\_2018\_RD0544\_109\_7\_20180906\_00004.jpg



Front view of the pocket erosion. Note vegetation and riprap at the site.

Photo 2 of 2 : FA\_2018\_RD0544\_109\_7\_20180906\_00005.jpg



Front view of the pocket erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.68	Rating **	A/W	Issue No.	90
LM End	2.71	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.818000 °	37.817800 °
				-121.351200 °	-121.351500 °
DWR ID	DWR_RD0544_02_f_2017_90				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:548					
Site Designation:LMA-454					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/18/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2018\_548\_4661.jpg



LM Start	<b>2.68</b>	Rating **	A/W	Issue No.	<b>90 (cont)</b>
LM End	<b>2.71</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_548\_4666.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.68	Rating **	A/W	Issue No.	90 (cont)
LM End	2.71	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.818000 °	37.817800 °
				-121.351200 °	-121.351500 °
DWR ID	DWR_RD0544_02_f _ 2017_90				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:548					
Site Designation:LMA-454					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/18/2017					
Notes:					

Photo 3 of 3 : LEVAL\_FA\_2018\_548\_4669.jpg



LM Start	2.69	Rating **	U	Issue No.	52
LM End	3.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.817928°	37.817698°
				-121.351355°	-121.358582°
DWR ID	DWR_RD0544_02_f_2014_52				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

Photo 1 of 3 : FA\_2018\_RD0544\_109\_52\_20180906\_00035.jpg



Looking south at veg on levee crown. (Spring 2018)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Reclamation District No. 0544 Upper Roberts Island

Looking at dense vegetation on landward and waterward slope.

A photograph of a vineyard. In the foreground, there is a field of tall, dry, golden-brown grass. To the left, a wooden walkway leads through rows of green grapevines. In the background, there are more trees and a clear blue sky.Page 32 of 44

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.76	Rating **	A/W	Issue No.	91 (cont)	
LM End	2.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			37.817400 °		37.817300 °
				-121.352300 °		-121.352500 °
DWR ID	DWR_RD0544_02_f_2017_91					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:547						
Site Designation:LMA-453						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/18/2017						
Notes: levee slopes covered in dense vegetations that hindered visibility.						

Photo 2 of 3 : LEVAL\_FA\_2018\_547\_4687.jpg



LM Start	<b>2.76</b>	Rating **	A/W	Issue No.	<b>91 (cont)</b>
LM End	<b>2.77</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2018\_547\_4688.jpg

**\* Location**

LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	2.80	Rating **	M	Issue No.	53
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.817187°	37.817187°
				-121.352964°	-121.352964°
DWR ID	DWR_RD0544_02_f_2014_53				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_109\_53\_20180906\_00038.jpg



Looking southwest at untrimmed tree on landward slope fall 2015.

LM Start	3.10	Rating **	U	Issue No.	77
LM End	3.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.817588°	37.817588°
				-121.358352°	-121.358352°
DWR ID	DWR_RD0544_02_s_2017_77				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Rip rap was placed but does not meet Title 23 standards.					

Photo 1 of 1 : FA\_2018\_RD0544\_109\_77\_20180906\_00057.jpg



Looking northeast at concrete rubble on waterward slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.11	Rating **	A/W	Issue No.	92
LM End	3.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage		37.817700 °	37.817800 °	
			-121.358600 °	-121.358700 °	
DWR ID	DWR_RD0544_02_f_2017_92				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:546					
Site Designation:LMA-452					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/18/2017					
Notes: dense vegetations on both sides of the levee made the slopes inaccessible					

Photo 1 of 3 : LEVAL\_FA\_2018\_546\_4693.jpg



LM Start	<b>3.11</b>	Rating **	A/W	Issue No.	<b>92 (cont)</b>
LM End	<b>3.12</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_546\_4695.jpg

**\* Location**

LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	<b>3.11</b>	Rating **	A/W	Issue No.	<b>92 (cont)</b>
LM End	<b>3.12</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.817700°	37.817800°
				-121.358600°	-121.358700°
DWR ID	DWR_RD0544_02_f_2017_92				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 546</p> <p>Site Designation: LMA-452</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/18/2017</p> <p>Notes: dense vegetations on both sides of the levee made the slopes inaccessible</p>					

Photo 3 of 3 : LEVAL\_FA\_2018\_546\_4698.jpg



LM Start	<b>3.20</b>	Rating **	M	Issue No.	<b>30</b>
LM End	<b>3.40</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.818748°	37.819717°
				-121.359440°	-121.362733°
DWR ID	DWR_RD0544_02_s_2013_30				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.22	Rating **	A/W	Issue No.	62
LM End	3.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818985 °	37.818985 °
				-121.359675 °	-121.359675 °
DWR ID	DWR_RD0544_02_s_2015_62				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.25	Rating **	A/W	Issue No.	93
LM End	3.34	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.819300 °	37.819800 °
				-121.360200 °	-121.361600 °
DWR ID	DWR_RD0544_02_f_2017_93				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:545					
Site Designation:LMA-451					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/18/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2018\_545\_4707.jpg

**\* Location**

LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement



# Reclamation District No. 0544 Upper Roberts Island

A photograph of a river flowing through a landscape. The river is in the center, with green vegetation on the banks. The sky is clear and blue. The foreground shows some dry, yellowish grass and green plants.

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
N/A : Not Applicable	N : Not Inspected/Rated	Ob : Design & System Obsolescence
WS : Water Side	M : Minimally Acceptable	En : Enforcement
CR : Crown	U : Unacceptable	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.29	Rating **	M	Issue No.	54
LM End	3.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819635 °	37.819635 °
				-121.360619 °	-121.360619 °
DWR ID	DWR_RD0544_02_f_2014_54				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.48	Rating **	C	Issue No.	36
LM End	3.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819576 °	37.819530 °
				-121.364056 °	-121.364653 °
DWR ID	DWR_RD0544_02_s_2012_36				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Cactus on landside slope.					

No Photos

LM Start	3.49	Rating **	M	Issue No.	55
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.819563 °	37.819542 °
				-121.364307 °	-121.364908 °
DWR ID	DWR_RD0544_02_f_2014_55				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_RD0544\_109\_55\_20180906\_00039.jpg



Looking southwest at untrimmed trees on landward slope and toe fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	<b>3.51</b>	Rating **	A/W	Issue No.	<b>94</b>							
LM End	<b>3.55</b>	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		37.819500 °	37.819400 °								
			-121.364700 °	-121.365400 °								
DWR ID	DWR_RD0544_02_f_2017_94											
Comment Code												
Inspector Comment												
Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 544 Site Designation: LMA-450 Repair Type: Erosion Rating: Area of Concern Field Date: 8/18/2017 Notes:												

Photo 1 of 3 : LEVAL\_FA\_2018\_544\_4781.jpg



LM Start	<b>3.51</b>	Rating **	A/W	Issue No.	<b>94 (cont)</b>
LM End	<b>3.55</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_544\_4782.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.51	Rating **	A/W	Issue No.	94 (cont)
LM End	3.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.819500 °	37.819400 °
				-121.364700 °	-121.365400 °
DWR ID	DWR_RD0544_02_f _ 2017_94				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:544					
Site Designation:LMA-450					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/18/2017					
Notes:					

Photo 3 of 3 : LEVAL\_FA\_2018\_544\_4783.jpg



LM Start	3.57	Rating **	M	Issue No.	19
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.819400 °	37.819400 °
				-121.365762 °	-121.365762 °
DWR ID	DWR_RD0544_02_f_2013_19				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.57	Rating **	A/W	Issue No.	95
LM End	3.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.819400 °	37.819400 °
				-121.365800 °	-121.365900 °
DWR ID	DWR_RD0544_02_f_2017_95				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:543					
Site Designation:LMA-449					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/18/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2018\_543\_4790.jpg



LM Start	<b>3.57</b>	Rating **	A/W	Issue No.	<b>95 (cont)</b>
LM End	<b>3.58</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2018\_543\_4797.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.57	Rating **	A/W	Issue No.	95 (cont)
LM End	3.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.819400 °	37.819400 °
				-121.365800 °	-121.365900 °
DWR ID	DWR_RD0544_02_f _ 2017_95				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:543					
Site Designation:LMA-449					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/18/2017					
Notes:					

Photo 3 of 3 : LEVAL\_FA\_2018\_543\_4799.jpg



LM Start	3.58	Rating **	M	Issue No.	67
LM End	3.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.819419 °	37.819419 °
				-121.365854 °	-121.365854 °
DWR ID	DWR_RD0544_02_f_2015_67				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent holes on landward slope.					

Photo 1 of 2 : FA\_2018\_RD0544\_109\_67\_20180906\_00044.jpg



Looking northeast at typical view of rodent holes on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0544 Upper Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	09/13/2018 09/13/2018	Richard Willoughby

LM Start	3.58	Rating **	M	Issue No.	67 (cont)	
LM End	3.58	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.819419 °		37.819419 °
				-121.365854 °		-121.365854 °
DWR ID	DWR_RD0544_02_f_2015_67					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Large rodent holes on landward slope.						

Photo 2 of 2 : FA\_2018\_RD0544\_109\_67\_20180906\_00045.jpg



Looking north at typical view of rodent holes on landward slope.

LM Start	4.05	Rating **	U	Issue No.	64
LM End	4.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821620 °	37.821620 °
				-121.373283 °	-121.373283 °
DWR ID	DWR_RD0544_02_s_2015_64				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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